

# Data on Ethanol in Gasoline

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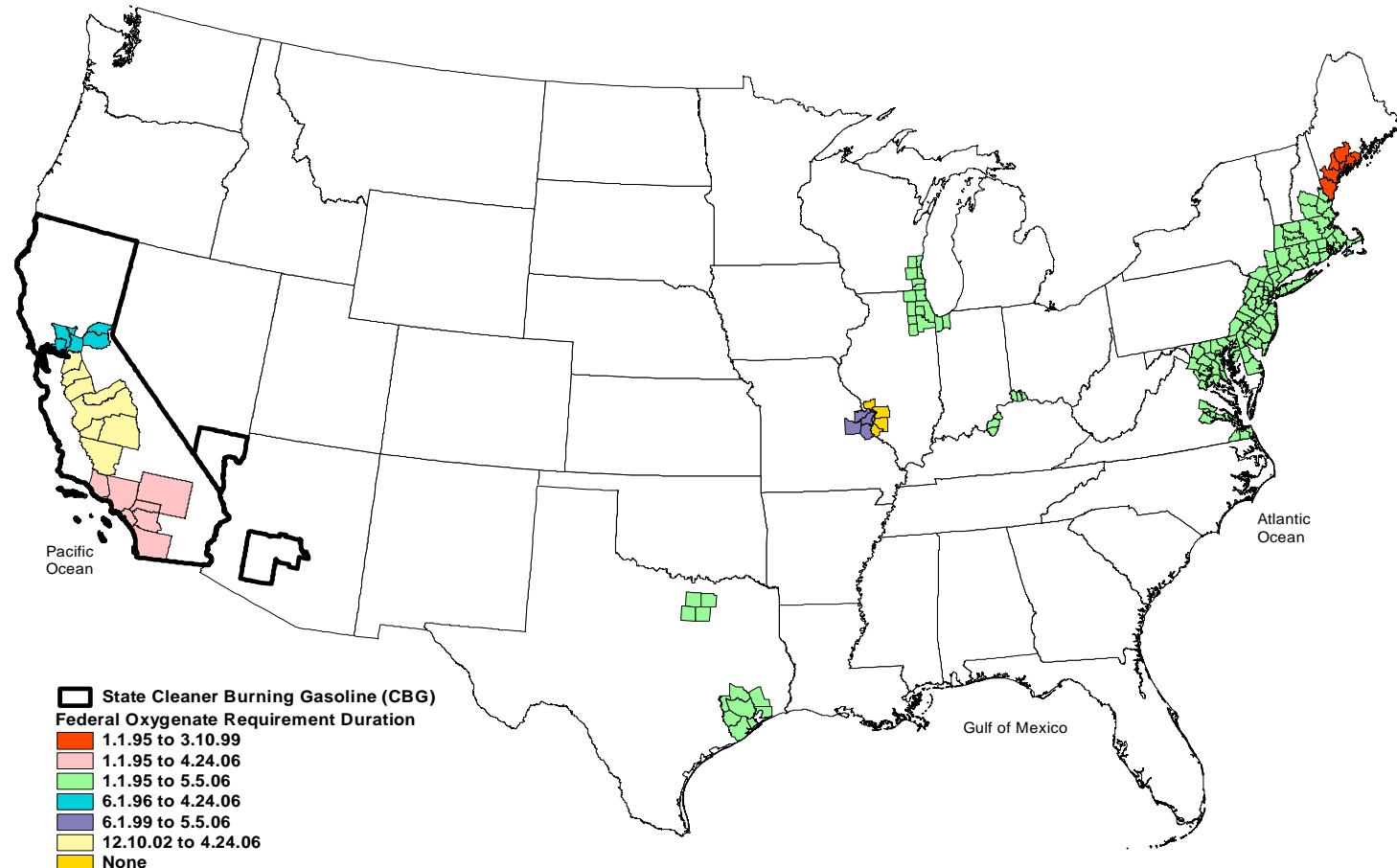
US EPA, Ada OK

ASTSWMO, Fuel Oxygenates and Other Additives,  
March 21, 2012, St. Louis, Missouri

# Clean Air Act Amendments of 1990

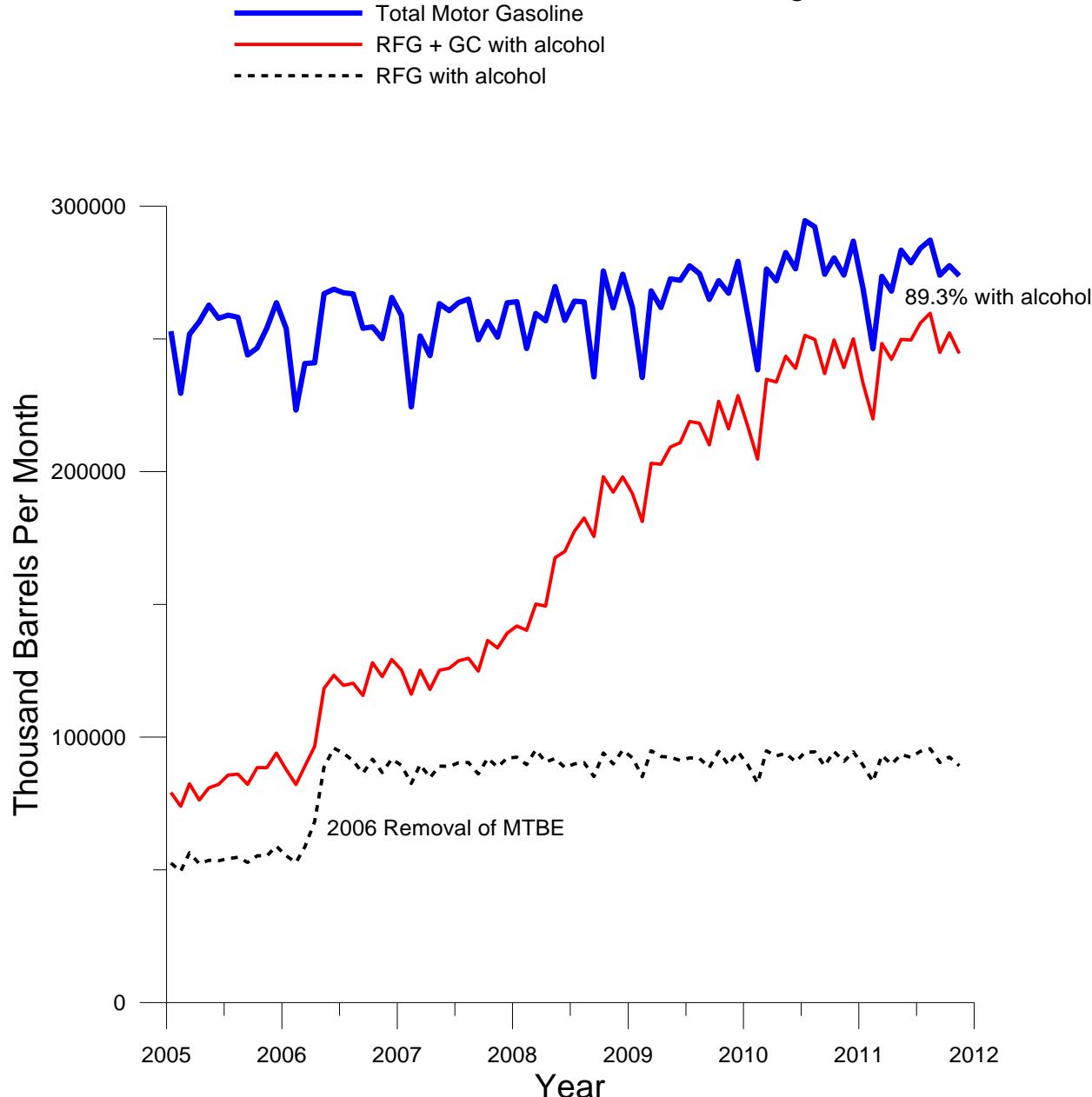
- Established framework for U.S. gasoline composition
  - Final lead phase out (1996)
  - Reformulated, conventional and oxygenated gasoline programs
    - Reformulated (RFG) – benzene < 1%; oxygenated additive until 2006
    - Conventional (CG) – benzene limited by anti-dumping provision – oxygenates boost octane
    - Oxygenated (OG) – control CO emissions in winter in selected cities
  - Mobile Sources Air Toxics Act (MSAT) 2007
    - Reduce benzene to 0.62% all U.S.
  - For more information:
    - Gasoline Composition Regulations Affecting L.U.S.T. Sites, 2010, EPA EPA/600/R-10/001

# Reformulated and Conventional Gasoline



Whole county boundaries shown for partial counties: Grundy & Kendall in Illinois, Bullitt & Oldham in Kentucky. Not represented: above 4500' on White Face Mountain in Essex County, New York. All areas not indicated on the map use conventional gasoline.

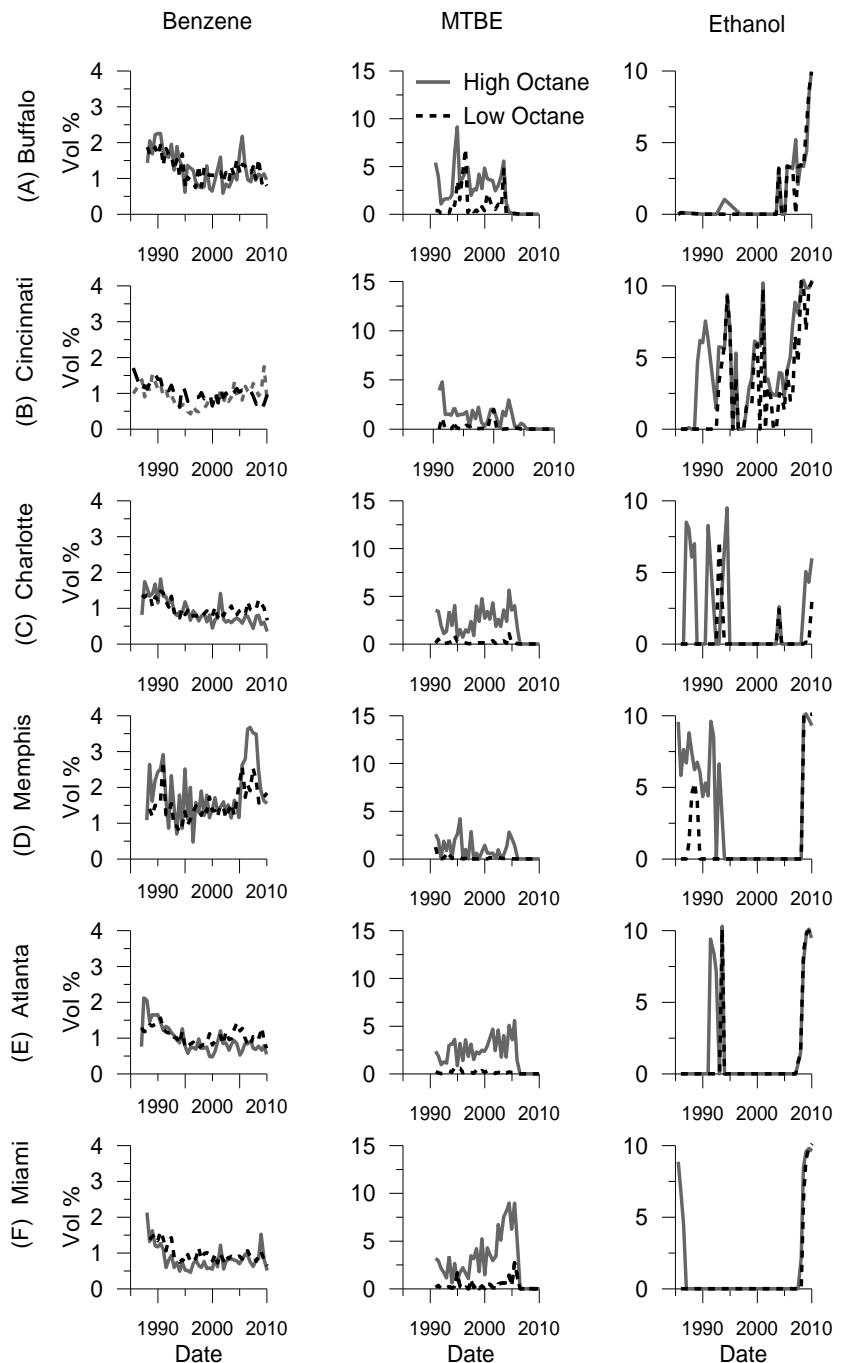
## EIA Gasoline Production and Blending Data



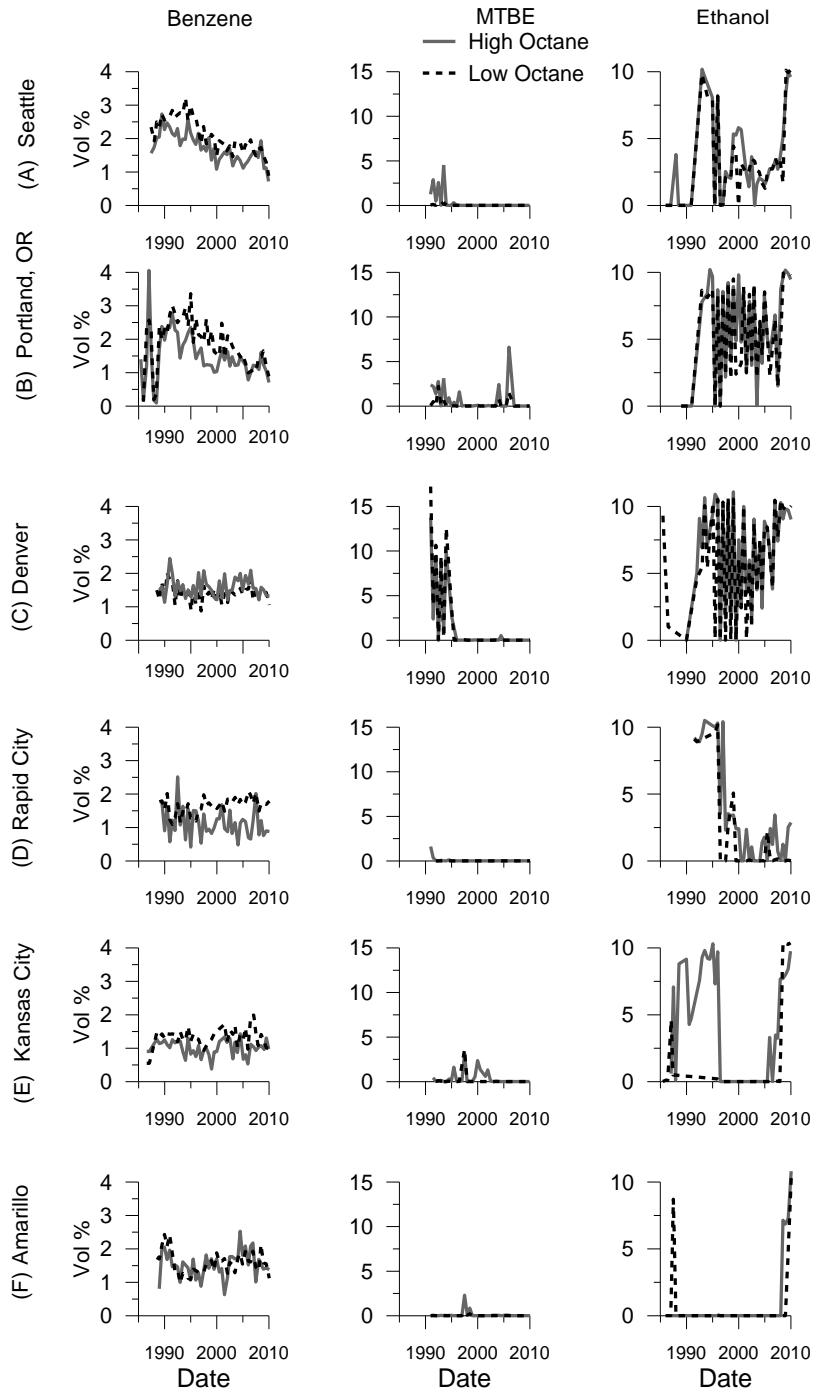
# Some of the 10%

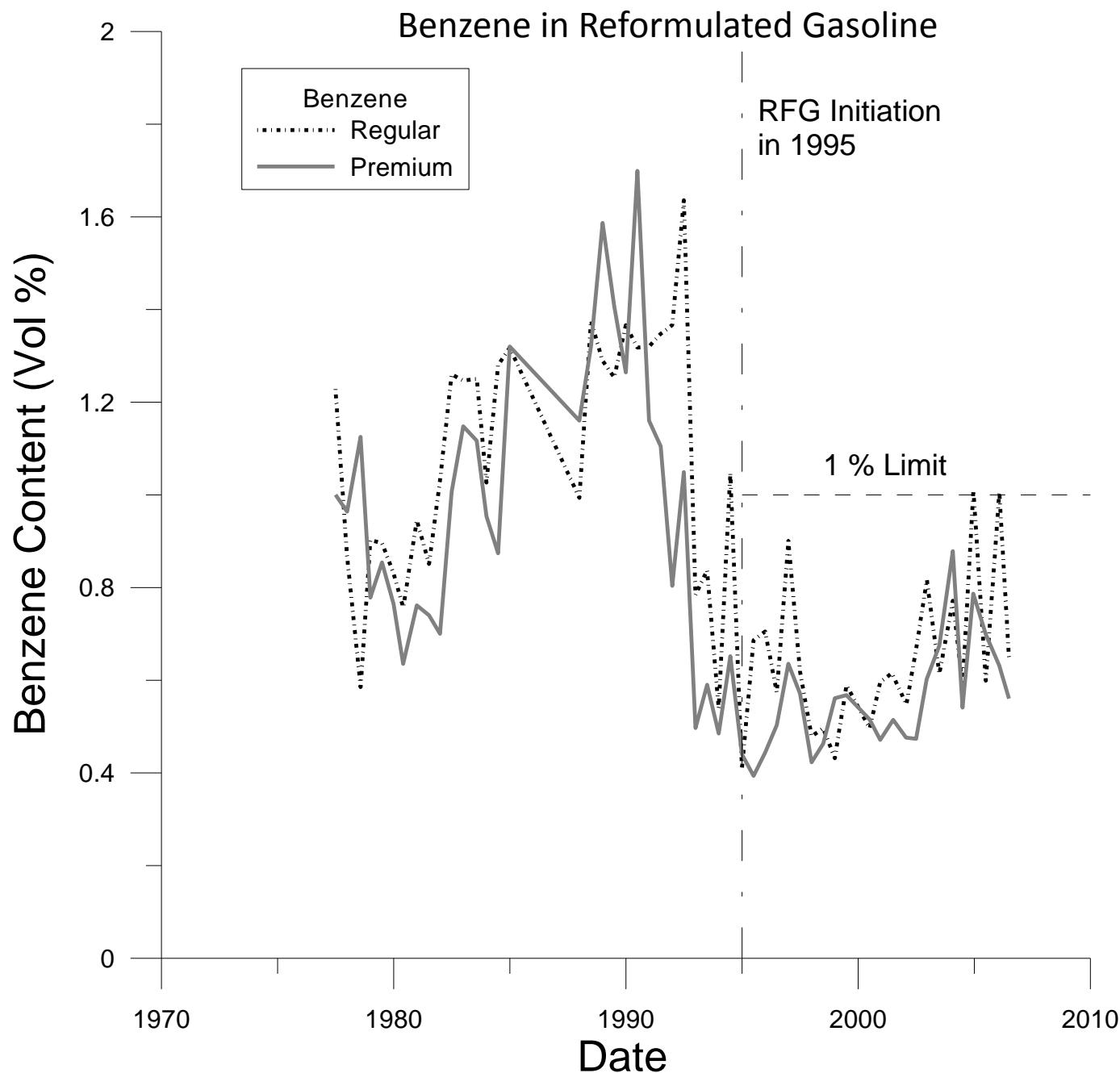


## Conventional Gasoline east of the Mississippi

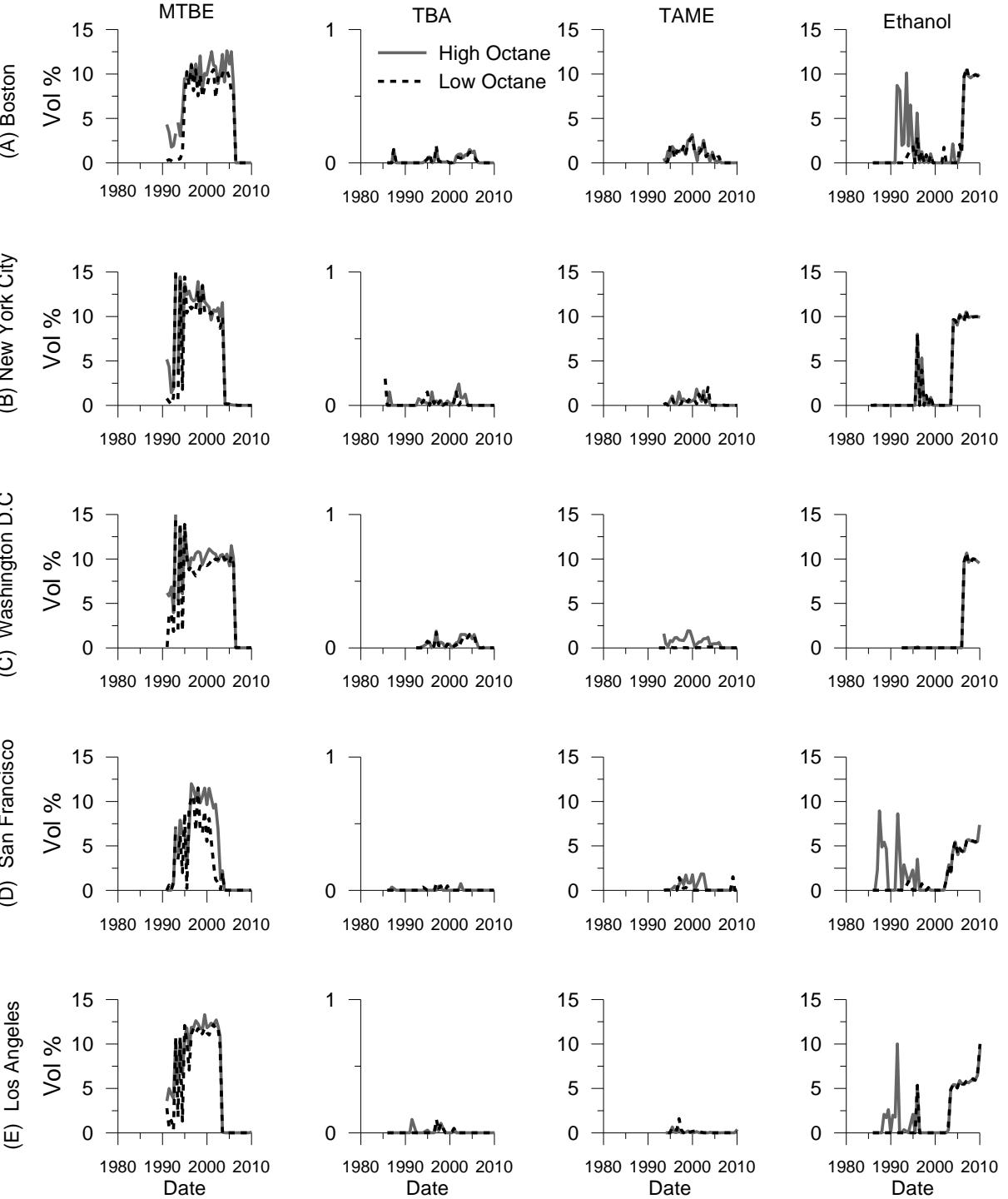


# Conventional Gasoline west of the Mississippi

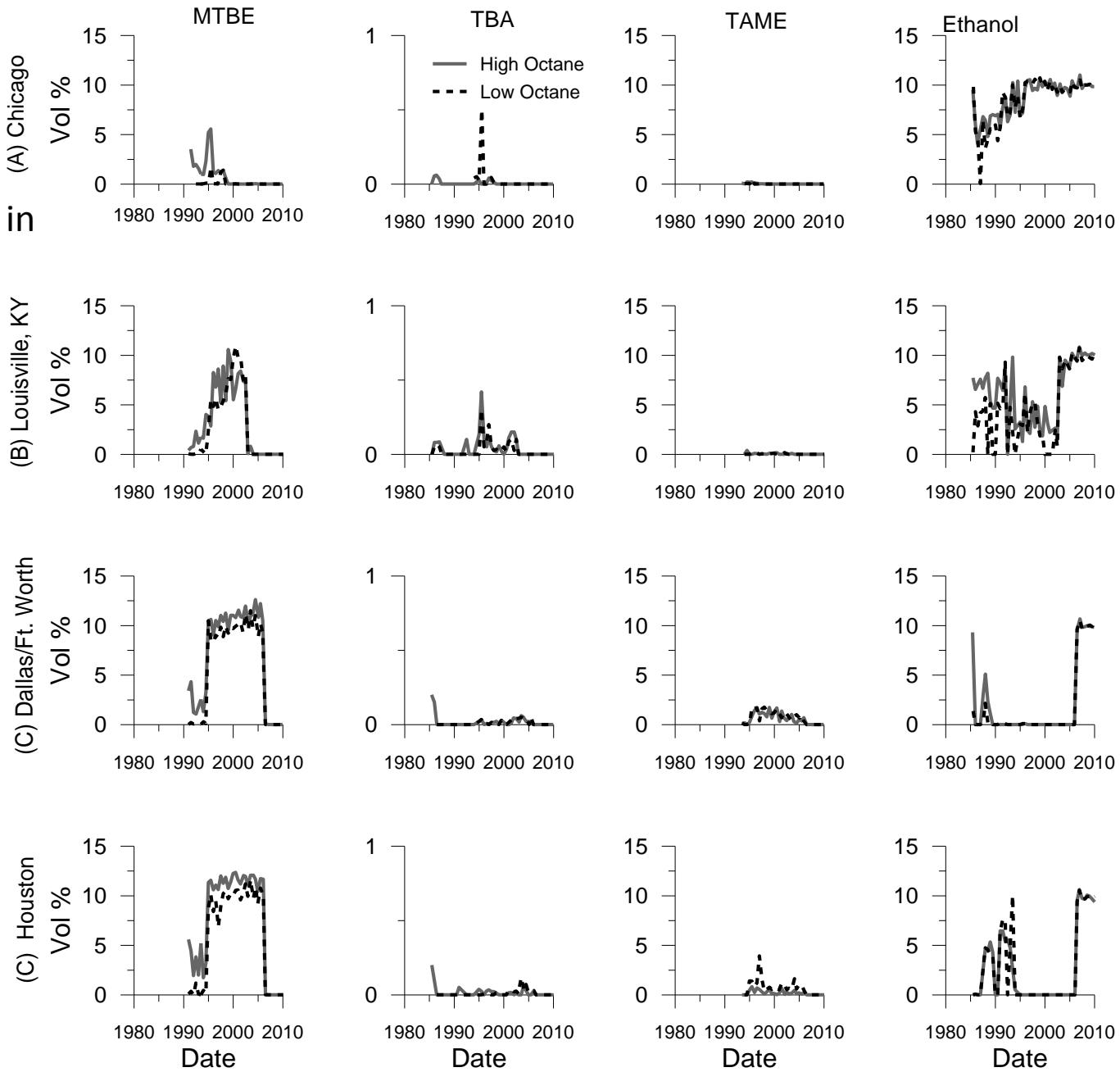




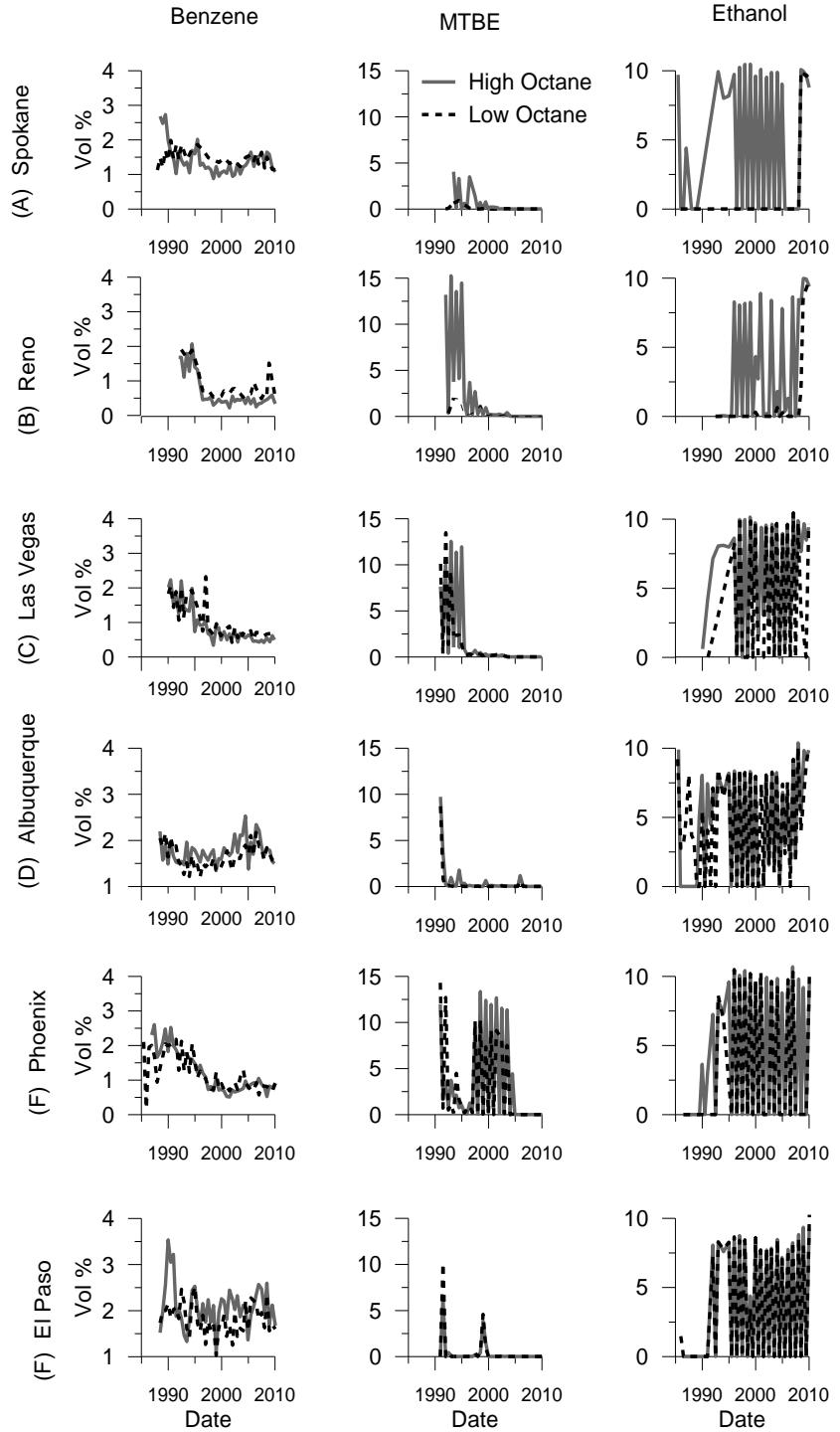
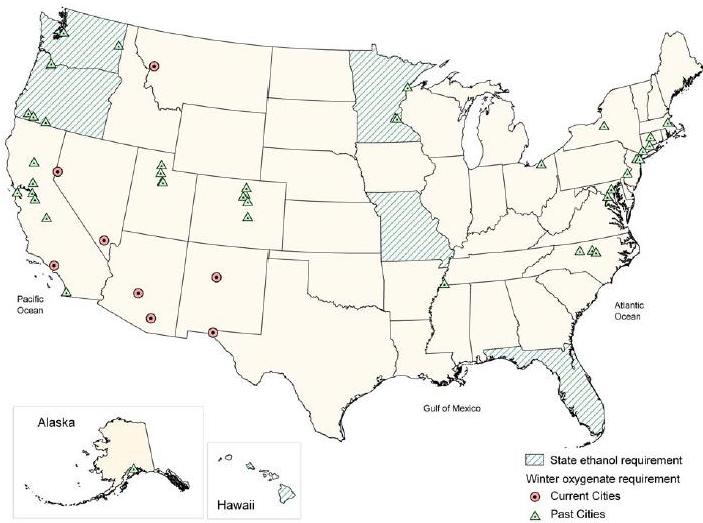
## Reformulated gasoline on the east and west coasts

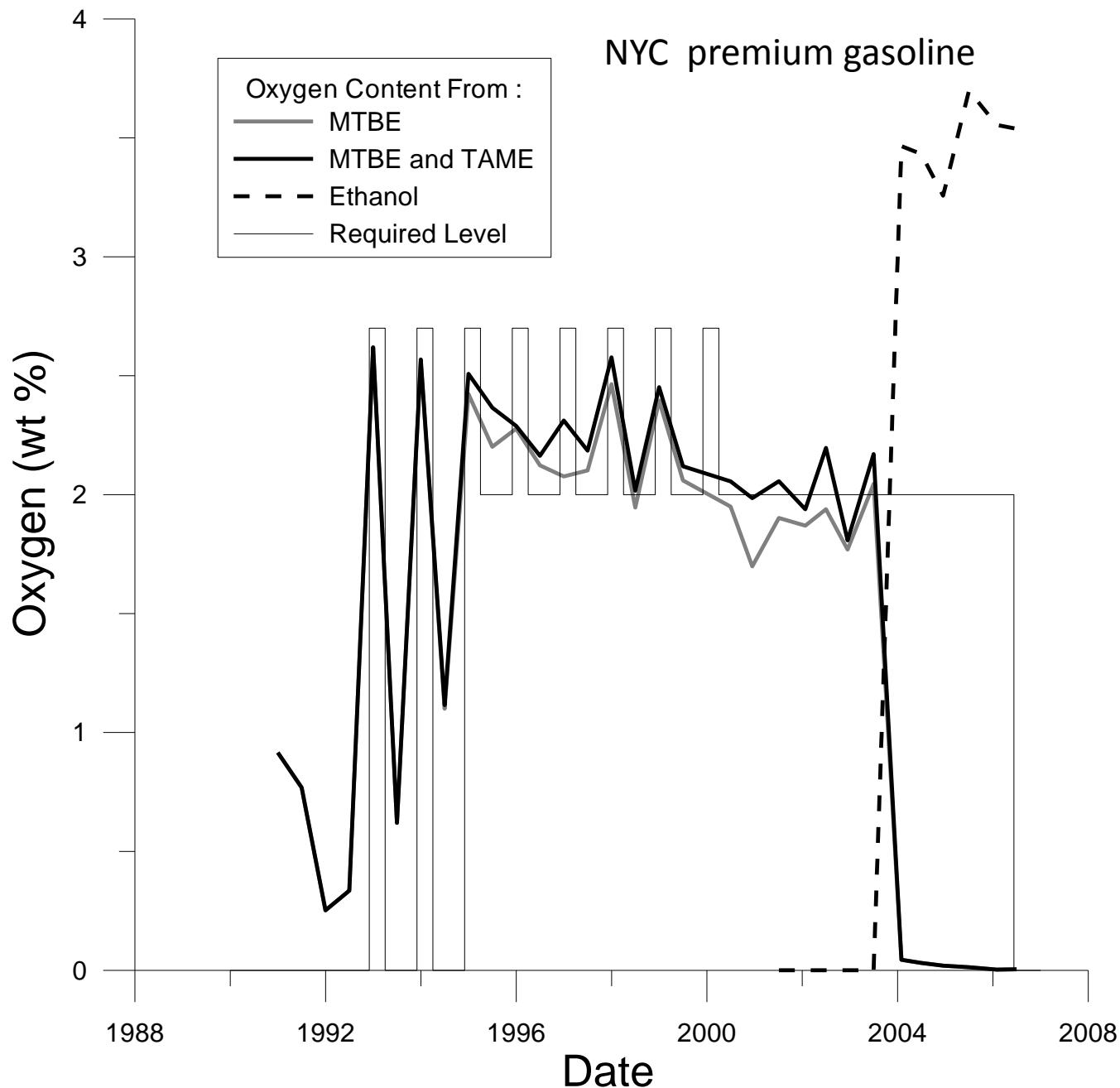


## Reformulated gasoline in the mid-continent



# Oxygenated Gasoline





# National Risk Management Research Laboratory

- Although this work was reviewed by EPA and approved for presentation, it may not necessarily reflect official Agency policy.

# Resources

- For EPA/ORD research on tanks  
<http://www.epa.gov/nrmrl/gwerd/gw/tanks.html>
- Gasoline Composition Regulations Affecting L.U.S.T. Sites, 2010, EPA EPA/600/R-10/001
- Composition and Behavior of Fuel Ethanol, 2009, EPA 600/R-09/037